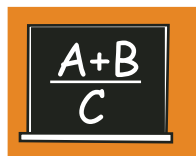


Functional Independence

Fall 2012



Mathematics

Item Descriptors

Grade 6

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DIRECTIONS: Read each question. Choose the **BEST** answer for each question.

NOTE: For each item listed throughout this booklet, the first statement is a summary of the Michigan Extended Grade Level Content Expectation (EGLCE) and the second statement or problem is the descriptor for the item's stem or question.

- 1 N.MR.05.FI.EG09:** Create, describe, and extend simple number patterns

Find missing number in skip-counting pattern

- A** difference between adjacent numbers
- B** difference between first and last numbers
- C** correct

- 2 N.MR.05.FI.EG10:** Find the next number in a simple repeating pattern

Describe how to find next number in skip-counting pattern

- A** correct
- B** correct operation but under by 2
- C** correct operation but under by 1

- 3 M.UN.05.FI.EG01:** Select and use standard tools for measurement

Select tool to measure length

- A** tool to measure time
- B** correct
- C** tool to measure temperature

- 4 M.PS.05.FI.EG03:** Measure and compare integer temperatures

Use thermometer to measure temperature

- A** correct
- B** under by 4 degrees
- C** under by 2 degrees

- 5 M.UN.05.FI.EG05:** Measure lengths to the nearest inch

Measure length to nearest inch

- A** under by one inch
- B** correct
- C** over by one inch

- 6 M.UN.05.FI.EG02:** Select appropriate units of measure

Identify unit of measure for distance

- A** unit of measure for volume
- B** unit of measure for temperature
- C** correct

- 7 M.UN.05.FI.EG04:** Approximate temperature

Identify most likely temperature given context

- A** correct
- B** too high of a temperature
- C** higher temperature than in B

- 8 M.PS.05.FI.EG08:** Solve one-step word problems

Add increase to temperature

- A** subtracted
- B** incorrect addition
- C** correct

- 9 G.GS.05.FI.EG01:** Identify, describe, and compare two-dimensional shapes

Given diagram, identify name of shape

- A** incorrect 2-D shape
- B** incorrect 2-D shape
- C** correct

- 10 G.LO.05.FI.EG02:** Describe and use relative position of objects on a plane and in space

Determine relative position of two objects

- A** correct
- B** incorrect position
- C** incorrect position

- 11 M.PS.05.FI.EG06:** Measure and compare lengths, weights, and volumes

Determine greatest weight in pounds given three weights

- A** intermediate weight
- B** least weight
- C** correct

- 12 M.UN.05.FI.EG07:** Tell time on a radial or digital clock to the nearest hour

Tell time on a radial clock

- A** correct
- B** one hour over
- C** location of minute hand

- 13 M.UN.05.FI.EG09:** Identify and use different coins and bills

Given value in dollars and cents, identify matching set of bills and coins

- A** 1-dollar bill has value of five dollars
- B** 5-dollar bill has value of ten dollars
- C** correct

- 14 M.UN.05.FI.EG10:** Recognize equivalent sets of coins and bills

Identify set of coins equivalent to given set

- A** correct
- B** 25 cents over
- C** 10 cents over

- 15 M.PS.05.FI.EG12:** Add and subtract money in dollars and cents

Add money in word problem

- A** omitted one of addends
- B** correct
- C** incorrect addition

- 16 M.PS.05.FI.EG12:** Add and subtract money in dollars and cents

Subtract money in word problem

- A** 10 cents = \$1
- B** correct
- C** added

- 17 D.RE.05.FI.EG03:** Describe the shape of data using informal language

Interpret trend of data in table

- A** correct
- B** incorrect trend
- C** incorrect trend

- 18 D.RE.05.FI.EG02:** Draw predictions and conclusions from data in tables, graphs, and charts

Interpret bar graph: find maximum value

- A** neither maximum nor minimum
- B** minimum, not maximum
- C** correct

- 19 D.RE.05.FI.EG03:** Describe the shape of data using informal language

Interpret trend of data in chart

- A** incorrect trend
- B** correct
- C** incorrect trend

- 20 N.ME.05.FI.EG01:** Read, write, and count using whole numbers to 10,000

Translate word form to standard form

- A** correct
- B** $a,bcd = ab,0cd$
- C** $a,bcd = a0b,0cd$

- 21 N.ME.05.FI.EG02:** Recognize equivalent representations for whole numbers to 10,000

Identify equivalent addition expression

- A** correct
- B** one incorrect addend
- C** one incorrect addend

- 22 N.ME.05.FI.EG02:** Recognize equivalent representations for whole numbers to 10,000

Translate standard form to expanded form

- A** $a,bcd = a + b + c + d$
- B** $a,bcd = a00 + b0 + c + d$
- C** correct

23 N.ME.05.FI.EG03: Represent whole numbers to 10,000

Given key and blocks, translate to standard form

- A** 100 less than total
- B** 30 less than total
- C** correct

24 N.ME.05.FI.EG05: Express numbers to 10,000 using place value

Determine number with value in tens place

- A** correct
- B** ones place = tens place
- C** hundreds place = tens place

25 N.ME.05.FI.EG07: Count numbers to 10,000 by 1s and to 1,000 by 2s, 5s, 10s, and 100s

Calculate number of objects in array

- A** twice the correct total
- B** correct
- C** length + width

26 N.ME.05.FI.EG08: Identify and place whole numbers on a number line

Identify shape at given location on number line in increments of 5

- A** shape with location 10 less than correct location
- B** shape with location 20 less than correct location
- C** correct

27 N.ME.05.FI.EG06: Compare and order numbers to 10,000

Determine number greater than given number

- A** correct
- B** less than given number
- C** less than given number

- 28 N.ME.05.FI.EG08:** Identify and place whole numbers on a number line

Identify shape at given location on number line in increments of 500

- A** shape with location 3,000 less than correct location
- B** correct
- C** shape with location 2,000 greater than correct location

- 29 N.FL.05.FI.EG11:** Use addition properties of 0

Add 3-digit number to zero

- A** incorrect difference
- B** subtracted 5
- C** correct

- 30 N.MR.05.FI.EG13:** Solve simple open sentences for addition and subtraction

Subtract two 2-digit numbers

- A** added
- B** over by 10
- C** correct

- 31 N.FL.05.FI.EG11:** Use addition properties of 0

Add 0 to 2-digit number

- A** correct
- B** added 1
- C** added 10

- 32 N.FL.05.FI.EG12:** Add and subtract two numbers with 1 or 2 digits each

Subtract two 2-digit numbers in context

- A** correct
- B** subtracted smaller values from larger values
- C** over by 10

- 33 N.MR.05.FI.EG15:** Select appropriate numbers to solve problems

Select correct 2-digit addends and add

- A** sum of first two addends
- B** sum of second two addends
- C** correct

34 N.FL.05.FI.EG14: Apply estimation in solving problems

Estimate cost in dollars

- A** underestimate by \$10
- B** correct
- C** overestimate by \$10

35 N.MR.05.FI.EG15: Select appropriate numbers to solve problems

Select correct 2-digit addends and add

- A** sum of first two addends
- B** sum of first and third addends
- C** correct



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